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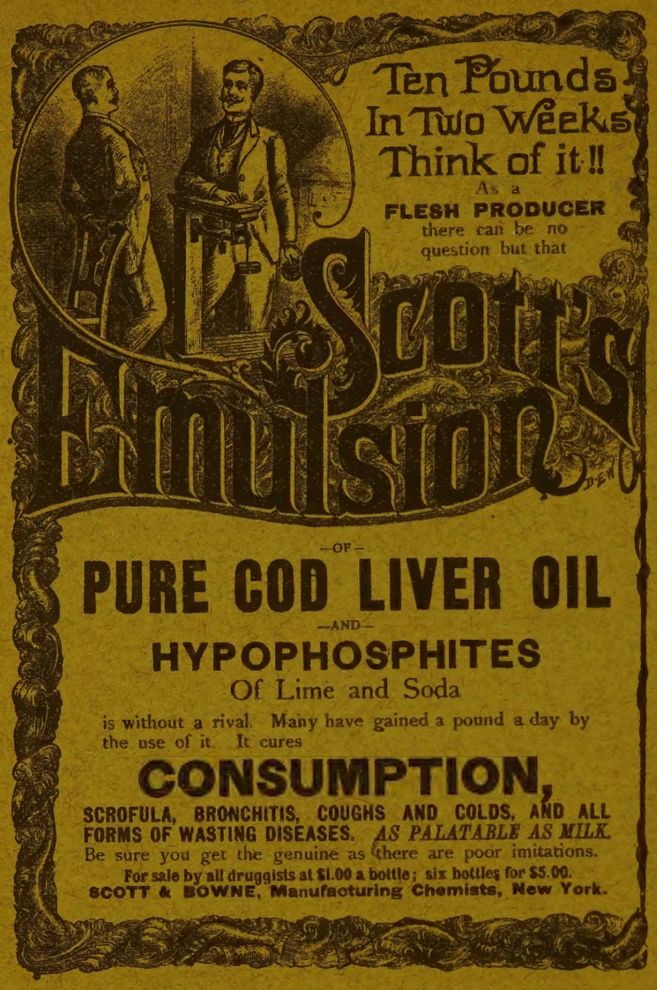

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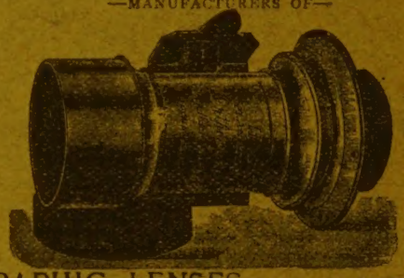

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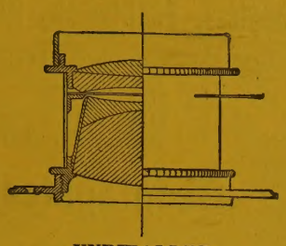

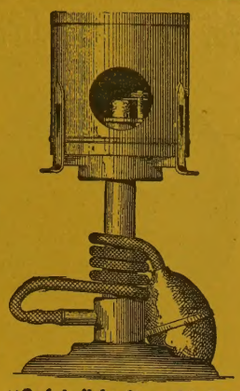

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VOL. II. MARCH, 1890. No. 19.

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Portraits of Mr. Ryder and his grandson.

II. A COZY CORNER. (Photo-Gravure.)
From the original painting by F. D. Millet.
Presented to the Metropolitan Museum of Art, New York, by Mr. Geo. I. Seney, 1887.

III. YE OLD BUSSING HOMESTEAD, NEW YORK CITY. (Photo-Gravure.)
From a negative by Catharine Weed Barnes.

The Bussing Homestead was built several years before the Revolution on the plains at the foot of the steep Harlem Heights at about 148th street. It was the country home of the Bussings for several generations. Among the gentlemen of this prominent old New York family there were not less than three who were concerned in the founding of the first free schools of the city and their subsequent management.

IV. WHEN MORNING GILDS THE SKY. (Photo-Gravure.)
After the original by B. W. Leader.

V. THE GATLING GUN, WITH BRUCE FEED. (Photo-Gelatine.)
Photographed by M. P. Warner, Holyoke, Mass.

This is the most rapid-firing machine gun in the world, firing from 800 to 1,000 shots per minute. Ten rifle barrels, open from end to end, are screwed into disks or diaphragms, rigid on the central shaft, which is journaled in a diaphragm at each end of the casing. Besides this group of barrels there is a cylinder, with channels cut in its outer surface, so that the breech-blocks or locks may slide forward and backward when the gun is revolved. These parts are all rigid on the shaft and revolve as one piece when the crank is turned. Each barrel has its own breech-block, which contains firing-pin, with spiral steel spring about it, and has a straight hook extractor on the under side, to withdraw the empty copper shells. The knob on rear end of firing-pin passes through a groove which holds it back while the block is being pressed forward. When the cartridge is tightly wedged in the firing-chamber, the firing-pin slips off at the end of the groove and the barrel is fired. The barrels and breech-blocks all revolve together in the same direction. The blocks have a forward and backward motion of their own. The forward motion places the cartridge in the firing-chamber, while the backward motion extracts the discharged shell. Cartridges (center fire, cal. .45) are unloaded directly from the original packages, the cardboard boxes each containing twenty (two rows of ten each). By pressing against the feed-rest and drawing the box downward the cartridges are held by their rims and the box pulled off. As they drop through the hopper in single column into the gun they turn a fluted spool or cylinder, which keeps them parallel with the barrels. Each barrel is fired once in a revolution. As only one shot is fired at a time there is no recoil. The action of each part is therefore deliberate, while collectively the discharges are frequent. The gun is loaded and fired only when the barrels are in motion from left to right; that is, while the crank is worked forward. When the gun is in action there are always five cartridges going through the process of loading and five cartridge shells in different stages of being extracted, and these several operations are continuous while the gun is being worked. Thus, as long as the gun is fed with cartridges, the several operations of loading, firing and extracting are carried on automatically, uniformly and continuously.

VI. PERFECTLY HAPPY. (Photo-Gravure.)
A photographic study of child life by Mr. Geo. B. Wood, Philadelphia.
From "Life and Nature," published by Nims & Knight, Troy, N. Y.

VII. THE SLAUGHTER PEN, GETTYSBURG. (Photo-Gravure.)
Gettysburg series, by W. J. Mozart.

The "Slaughter Pen" is the name given to that portion of the Devil's Den where it meets the "Valley of Death." The position was occupied by Law's Alabamians and Robertson's Texans, of Hood's Division, Longstreet's Corps, about 5.30 p.m. of the second day, after the desperate hand-to-hand fight to gain possession of Little Round Top. The Confederate forces retired on the evening of the third day to their position of the second day, west of the Emmetsburg road. The view is taken looking north-east through the Valley of Death, the base of Little Round Top showing on the right.

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Photographed by Ernest Edwards.

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